

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Randall B. Lauffer et al. Art Unit : Unknown  
Serial No. : Examiner : Unknown  
Filed : January 16, 2004  
Title : BIOACTIVATED DIAGNOSTIC IMAGING CONTRAST AGENTS

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

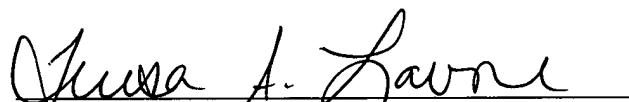
Applicant submits the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/952,971, filed on September 14, 2001. The references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

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Respectfully submitted,

Date: 1/16/2004



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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13498-019003	Application No.
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Randall B. Lauffer et al.	
		Filing Date January 16, 2004	Group Art Unit

<b>U.S. Patent Documents</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,880,008	11/1989	Lauffer			
	AB	4,899,755	02/1990	Lauffer et al.			
	AC	5,094,848	03/1992	Brixner			
	AD	5,171,563	12/1992	Abrams et al.			
	AE	H1312	05/1994	Coughlin et al.			
	AF	RE 35,524	06/1997	Saulnier et al.			
	AG	5,707,605	01/1998	Meade et al.			
	AH	5,783,662	07/1998	Janmey et al.			
	AI	5,932,188	08/1999	Snow et al.			

<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	AJ	EP 264,333	04/1998	EPO			
	AK	WO 91/03200	03/1991	PCT			
	AL	WO 95/15306	06/1995	PCT			
	AM	WO 95/15319	06/1995	PCT			
	AN	DE 19507822	08/1996	Germany			
	AO	WO 96/23526	08/1996	PCT			
	AP	WO 96/38184	12/1996	PCT			

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	AQ	Allen et al., "Liposomes containing synthetic lipid derivatives of poly (ethylene glycol) show prolonged circulation half-lives in vivo," <i>Biochim. Biophys. Acta</i> , 1991, 1066:29-36
	AR	Blau, "Radiotracers for Functional Brain Imaging," <i>Seminars in Nuclear Medicine</i> , Vol. XV, No. 4 (October 1985)
	AS	Brechbiel et al., "Synthesis of 1-(p-Isothiocyanatobenzyl) Derivatives of DTPA and EDTA. Antibody Labeling and Tumor-Imaging Studies," <i>Inorg. Chem.</i> , 1986, 25:2772-2781
	AT	Cacheris et al., "The Relationship between Thermodynamics and the Toxicity of Gadolinium Complexes," <i>Magn. Res. Imag.</i> , 1990, 8:467-481
	AU	Carter and Ho, "Structure of Serum Albumin," <i>Adv. Protein Chem.</i> , 1994, 45:153-203

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	AV	Chan et al., "In vitro studies on the Hypoxic Retention of a Novel Technetium – 99m Labeled Nitroimidazole in Rat Heart," <u>J. Nuclear Med.</u> , 1994, 35:18P, Abstract No. 65	
	AW	Chu, "The Quantitative Analysis of Structure-Activity Relationships," <u>Burger's Medicinal Chemistry</u> , Part 1, 1980, 4 <sup>th</sup> ed., pp. 393-418	
	AX	Cox et al., "Synthesis of C- and N- Functionalised Derivatives of 1,4,7 – Triazacyclonon-ane-1,4,7-triyltriacetic acid (NOTA), 1,4,7,10 – Tetra-azacycoldodecane-1,4,7,10 – tetrayltetra-acetic Acid (DOTA), and Diethylenetriaminepenta-acetic Acid (DTPA): Bifunctional Complexing Agents for the Derivatisation of Antibodies," <u>J. Chem. Soc. Perkin Transactions I</u> , 1990, pp. 2567-2576	
	AY	Green et al., "Protection for the Hydroxyl Group, including 1,2- and 1,3-Diols," <u>Protective Groups in Organic Synthesis</u> , 1981, 2 <sup>nd</sup> ed., J. Wiley & Sons, pp. 10-86	
	AZ	Harris et al., "Ferric Ion Sequestering Agents. 6. The Spectrophotometric and Potentiometric Evaluation of Sulfonated Tricatecholate Ligands," <u>J. Am. Chem. Soc.</u> , 1981, 103:2667	
	AAA	Harris et al., "Spectrophotometric Determination of the Proton-Dependent Stability Constant of Ferric Enterobactin," <u>J. Am. Chem. Soc.</u> , 1979, 101:2213	
	ABB	He and Carter, "Atomic Structure and Chemistry of Human Serum Albumin," <u>Nature</u> , 1992, 358:209-215	
	ACC	Hoey and Smith, "Chemistry of X-Ray Contrast Media," <u>Radiocontrast Agents</u> , 1984, Springer-Verlag, NY, Chapter 1, pp. 23-125	
	ADD	Horrocks and Albin, "Lanthanide Ion Luminescence in Coordination Chemistry and Biochemistry," <u>Progr. Inorg. Chem.</u> , 1984, 31:1-104	
	AEE	Kragh-Hansen, "Molecular Aspects of Ligand Binding to Serum Albumin," <u>Pharm. Rev.</u> , 1981, 33:17-53	
	AFF	Kumar et al., "Equilibrium and Kinetic Studies of Lanthanide Complexes of Macrocyclic Polyamino Carboxylates," <u>Inorg. Chem.</u> , 1993, 32:587-593	
	AGG	Lauffer, "Paramagnetic Metal Complexes as Water Proton Relaxation Agents for NMR Imaging: Theory and Design," <u>Chemical Reviews</u> , 1987, 87:901-927	
	AHH	Leo, "Partition Coefficients and their Uses," <u>Chemical Reviews</u> , 1971, 71:525-616	
	AII	March, <u>Advanced Organic Chemistry: Reactions, Mechanisms, and Structure</u> , 1992, 4 <sup>th</sup> ed., J. Wiley & Sons, pp. 392-396	
	AJJ	McMurtry et al., "Convenient Synthesis of Bifunctional Tetraaza Macrocycles," <u>Bioconjugate Chemistry</u> , 1992, 3:108-117	
	AKK	Okezaki et al., "Structure-Tissue Distribution Relationship Based on Physiological Pharmacokinetics for NY-198, A New Antimicrobial Agent, and the Related Pyridonecarboxylic Acids," <u>Drug Metabolism and Disposition</u> , 1988, 16:865-874	
	ALL	Paphadopoulos et al., "Sterically Stabilized Liposomes: Improvements in Pharmacokinetics and Antitumor Therapeutic Efficacy," <u>Proc. Natl. Acad. Sci. USA</u> , 1991, 88:11460-11464	
	AMM	Roda et al., "Quantitative Aspects of the Interaction of Bile Acids with Human Serum Albumin," <u>J. Lipid Research</u> , 1982, 23:490-495	
	ANN	Rolinson and Sutherland, "The Binding of Antibiotics to Serum Proteins," <u>British J. Pharmacol.</u> , 1965, 25:638-650	
	AOO	Schumhmann-Giampieri et al., "Preclinical Evaluation of Gd-EOB-DTPA as a Contrast Agent in MR Imaging of the Hepatobiliary System," <u>Radiology</u> , 1992, 183:59-64	

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<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
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	APP	Tinoco et al., "Equilibrium Dialysis and Scatchard Plots," <u>Physical Chemistry: Principles and Applications in Biological Sciences</u> , 1985, 2 <sup>nd</sup> ed., Prentice-Hall, pp. 172-177
	AQQ	Villringer et al., "Dynamic Imaging with Lanthanide Chelates in Normal Brain: Contrast Due to Magnetic Susceptibility Effects," <u>Mag. Res. Med.</u> , 1988, 6:164-174
	ARR	Watson et al., "Contrast Agents in Magnetic Resonance," <u>Magnetic Resonance Imaging</u> , 1992, 2 <sup>nd</sup> ed., Mosby-Year Book, Inc., Vol. 1, Chapter 14
	ASS	Williams and Rappaport, "Synthesis of Enantiomerically Pure Diethylenetriaminepentaacetic Acid Analogues. L-Phenylalanine as the Educt for Substitution at the Central Acetic Acid," <u>J. Org. Chem.</u> , 1993, 58:1151-1158
	ATT	Wright et al., "Heats and Entropies of Formation of Metal Chelates of Polyamine and Polyaminocarboxylate Ligands," <u>Anal. Chem.</u> , 1965, 37:884-892

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